

#### ABSTRACT OF THE DISCLOSURE

A method of and device for detecting a leak in reciprocating machinery (1), comprising at least two pistons (2, 2'), by the volume flow at least out of the reciprocating machinery (1) being monitored and analysed, e.g. by means of Fourier analysis, in order to make it possible to detect a flow component, where the flow component has a frequency that differs from the fundamental frequency of the reciprocating machinery, the fundamental frequency of the reciprocating machinery being constituted by the rotational frequency of the reciprocating machinery multiplied by the number of pistons (2, 2') in the reciprocating machinery.